

Electronic Information Disclosure Statement



Passive Virtual Reality

Application:



10/038313

Confirmation: 7746

Applicant(s): Francis Maguire

Docket

313-2-3

Number:

Group Art

Unit:

Examiner:

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(2168566 or 2955156 or 3050870 or 3113180 or 3234327 or 3336587 or 3379833 or 3379885 or 3450466 or 3462604 or 3473868 or 3507988 or 3542457 or 3576945 or 3593286 or 3663098 or 3712716 or 3746782 or 3850511 or 3864030 or 3869694 or 3883235 or 3953111 or 4028725 or 4034401 or 4048653 or 4109145 or 4189744 or 4190332 or 4199785 or 4209255 or 4231066 or 4246605 or 4283177 or 4315240 or 4315241 or 4349815 or 4405943 or 4513317 or 4516157 or 4559555 or 4561448 or 4603158 or 4672438 or 4757380 or 4819064 or 4823271 or 4853764 or 4967268 or 4979033).pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

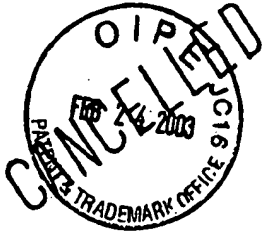
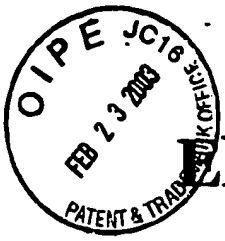
init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
ML	P01	2168566	1939-08-08		Goldsmith	348	113
ML	P02	2955156	1960-10-04		Heilig	348	53
ML	P03	3050870	1962-08-28		Heilig	434	365
ML	P04	3113180	1963-12-03		Bingley et al	348	206
ML	P05	3234327	1966-02-08		McMann	358	494
ML	P06	3336587	1967-08-15		Brown	348	583

M.L	P07	3379833	1968-04-23	Hecker et al	348	583
M.L	P08	3379885	1968-04-23	Nork	250	338.1
M.L	P09	3450466	1969-06-17	Streisinger	351	210
M.L	P10	3462604	1969-08-19	Mason	250	206
M.L	P11	3473868	1969-10-21	Ypoung et al	351	210
M.L	P12	3507988	1970-04-21	Holmes	348	143
M.L	P13	3542457	1970-11-24	Balding et al	351	206
M.L	P14	3576945	1971-05-04	Eberling	348	343
M.L	P15	3593286	1971-07-13	Altman	382	215
M.L	P16	3663098	1972-05-16	Merchant	351	211
M.L	P17	3712716	1973-01-23	Cornsweet et al	351	210
M.L	P18	3746782	1973-07-17	Driskell	348	586
M.L	P19	3850511	1974-11-26	Merchant	351	209
M.L	P20	3864030	1975-02-04	Cornsweet	351	210
M.L	P21	3869694	1975-03-04	Merchant et al	367	117
M.L	P22	3883235	1975-05-13	Lynn et al	351	246
M.L	P23	3953111	1976-04-27	Fisher et al	359	714
M.L	P24	4028725	1977-06-07	Lewis	348	115
M.L	P25	4034401	1977-07-05	Mann	348	115
M.L	P26	4048653	1977-09-13	Spooner	348	115
M.L	P27	4109145	1978-08-22	Graf	250	221
M.L	P28	4189744	1980-02-19	Stern	348	577
M.L	P29	4190332	1980-02-26	Body et al	351	211
M.L	P30	4199785	1980-04-22	McCullough et al	348	704
M.L	P31	4209255	1980-06-24	Heynau	356	141.3
M.L	P32	4231066	1980-10-28	Merchant	348	240.99
M.L	P33	4246605	1981-01-20	La Russa	348	121
M.L	P34	4283177	1981-08-11	Kron et al	434	59
M.L	P37	4315240	1982-02-09	Spooner	340	980

ML	P38	4315241	1982-02-09		Spooner	345	8
ML	P39	4349815	1982-09-14		Spooner	345	8
ML	P40	4405943	1983-09-20		Kanaly	375	240.08
ML	P41	4513317	1985-04-23		Ruoff	375	240.25
ML	P42	4516157	1985-05-07		Campbell	348	158
ML	P43	4559555	1985-12-17		Schoolman	348	53
ML	P44	4561448	1985-12-31		Buchas	600	546
ML	P45	4603158	1986-07-29		Markham et al	524	100
ML	P46	4672438	1987-06-09		Plante et al	348	121
ML	P47	4757380	1988-07-12		Smets et al	348	42
ML	P48	4819064	1989-04-04		Diner	348	47
ML	P49	4823271	1989-04-18		Clark et al	701	200
ML	P50	4853764	1989-08-01		Sutter	348	53
ML	P51	4967268	1990-10-30		Lipton et al	348	56
ML	P52	4979033	1990-12-18		Stephens	348	56

Signature

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MATTHEW LUU	6/21/05



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search string: (4982278 or 5049988 or 5175616 or 3919475 or 4181408 or 4300818 or 4303394 or 4348186 or 4402580 or 4621283 or 4651201 or 5305012 or 5394517 or 5515130 or 5857121 or 4431278 or 4444471 or 4828381 or 5245371 or 5341181 or 5455654).pn.

US Patent Documents

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init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
ML	P01	4982278	1991-01-01		Dahl et al	348	53
ML	P02	5049988	1991-09-17		Sefton et al	348	143
ML	P03	5175616	1992-12-29		Milgram et al	348	47
ML	P04	3919475	1975-11-11		Dukich	348	211.4
ML	P05	4181408	1980-01-01		Senders	351	159
ML	P06	4300818	1981-11-17		Schachar	351	210
ML	P07	4303394	1981-12-01		Berke et al	434	40
ML	P08	4348186	1982-09-07		Harvey	434	44

ML	P09	4402580	1983-09-06		Ross	351	203
ML	P10	4621283	1986-11-04		Feinbloom	348	77
ML	P11	4651201	1987-03-17		Schoolman	348	45
ML	P12	5305012	1994-04-19		Faris	345	7
ML	P13	5394517	1995-02-28		Kalawsky	345	632
ML	P14	5515130	1996-05-07		Tsukahara	396	51
ML	P15	5857121	1999-01-05		Arai et al	396	51
ML	P16	4431278	1984-02-14		Nohda	351	211
ML	P17	4444471	1984-04-24		Ford, Jr. et al	359	676
ML	P18	4828381	1989-05-09		Shindo	351	211
ML	P19	5245371	1993-09-14		Nagano et al	396	51
ML	P21	5341181	1994-08-23		Godard	351	210
ML	P23	5455654	1995-10-03		Suzuki	396	123

Signature

Examiner Name	Date
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FORM PTO-1449
(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

SERIAL NO.

313-002-3

10/038,313

APPLICANT

F.J. Maguire Jr

FILING DATE

10/22/01

GROUP

LIST OF PRIOR ART CITED BY APPLICANT

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
M.L.	AL	3-292093	12/1991	JP	—	—		
M.L.	AM	5-211625	8/1993	JP	—	—		
M.L.	AN	5-569243	1/1993	JP	—	—		
M.L.	AO	421553	1/1993	DE	—	—		
M.L.	AP	065564	05/1995	EP	—	—		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

M.L.	AR	"A Three-Dimensional Electronic Retina Architecture", G. Salada, B.S., Dec. 1987, Defense Technical Information Center Technical Report.
M.L.	AS	"Stereo and Eye Movement", D. Geiger et al, Massachusetts Institute of Technology, Artificial Intelligence Laboratory, A.I. Memo 927, January 1988.
M.L.	AT	"Image Focusing in Space and Time", M. Siegel, Carnegie Mellon Univ., the Robotics Institute, Technical Report CMU-RI-TR-88-2, Feb. 1988.

EXAMINER

MATTHEW LUV

DATE CONSIDERED

6/21/05



313-002-3

10/038,313

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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M.L.	AL	2272124	5/1994	GB	—	—		
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

M.L.	AR	"A Review and Investigation of Aiming and Tracking Performance with Head-Mounted Sights", M. Wells et al, <u>IEEE Transactions on Systems, Man and Cybernetics</u> , Vol. SMC 17, No. 2, Mar/Apr 1987, pp. 210-221.
M.L.	AS	"Effortless Computing: The Eyes Have It", <u>Science</u> 86, April, p. 12
M.L.	AT	"Argos: A Display System for Augmenting Reality", D. Drascic et al, <u>Formal Video, Program and Proc. Conf. Human Factors in Computing Systems (Interchi '93)</u> , April 24-29, 1993, Amsterdam p. 521.

EXAMINER

MATTHEW LUU

DATE CONSIDERED

6/4/05

FORM PTO-1449
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Sheet 3 of 6

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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

M.L.	AR	"Autocalibration for Virtual Environments Tracking Hardware", S. Gottschalk et al, Computer Graphics Proceedings, Annual Conference Series 1993, pp. 65-72.
M.L.	AS	"Augmented Reality: An Application of Heads-up Display Tech- nology to Manual Manufacturing Processes", Proc. Hawaii Int'l Conf. System Sciences, Jan. 1992, pp. 659-669. (T. Caudell et al)
M.L.	AT	"High Resolution Virtual Reality", M. Deering, Computer Graphics, Proc. SIGGRAPH Conf, Vol. 26, No. 2, July 1992, pp. 195-202.

EXAMINER

MATTHEW LUV

DATE CONSIDERED

6/24/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not



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APPLICANT

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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

M.L.	AR	"Through the Lens Camera Control", M. Gleicher et al, Computer Graphics (Proc. SIGGRAPH Conf) Chicago IL July 1992, Vol. 26, No. 2, pp. 331-340.
M.L.	AS	"Interacting with Paper on the Digital Desk", P. Wellner, Comm ACM, Vol. 36, No. 7, July 1993, pp. 87-96.
M.L.	AT	"Calibration of Head-Mounted Displays for Augmented Reality Applications", A. Janin et al, Proc. Virtual Reality Ann. Int'l Symp. (VRAIS '93) Sept. 1993, pp. 246-255.

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MATTHEW LUU

DATE CONSIDERED

6/21/05



Sheet 5 of 6

FORM PTO-1449
(REV. 7-99)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

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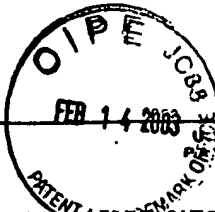
M.L.	AR	"Knowledge-Based Augmented Reality", S. Feiner et al, Comm ACM, July 1993, Vol. 36, No. 7, pp. 53-62.
M.L.	AS	"Applications of Augmented Reality for Human-Robot Communications", P. Milgram et al, Proc IROS '93: Int'l Conf. Intelligent Robots and Systems, July 1993, Yokohama, pp. 1.467 - 1.472.
M.L.	AT	"Video See-through Design for Merging of Real and Virtual Environments", E. Edwards et al, IEEE Virtual Reality Ann. Int'l Symp., Sept. 18-22, 1993, Seattle WA, pp. 223-233.

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MATTHEW LUU

DATE CONSIDERED

6/24/05

Sheet 6 of 6FORM PTO-1449
(REV. 7-90)U.S. DEPARTMENT OF COMMERCE
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U.S. PATENT DOCUMENTS

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	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

M.L.	AR	"Merging Virtual Objects with the Real World: Seeing Ultrasound Imagery within the Patient", M. Bajura et al, <u>Computer Graphics Proceedings</u> , July 1992, Vol. 26, No. 2, pp. 203-210.
M.L.	AS	"High-Resolution Inserts in Wide-Angle Head-Mounted Stereoscopic Displays", E. Howlett et al, <u>SPIE Vol. 1669, Stereoscopic Displays and Applications III</u> (1992), pp. 193-203.
M.L.	AT	"Proposal for a Large Visual Field Display Employing Eye Tracking", H. Yamaguchi et al, <u>SPIE Vol. 1194, Optics, Illumination and Image Sensing for Machine Vision IV</u> (1989) pp. 13-20.

EXAMINER

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APPLICANT

F.J. Maguire Jr

FILING DATE

Oct. 22, 2002

GROUP

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M.L.	AA	46343841/1987	Neves et al	434	44	
M.L.	AB	515371610/1992	Smith	348	39	
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